

APPENDIX A:
**BUILDING PLAN & ELEVATION OF CASE STUDY
BUILDING**

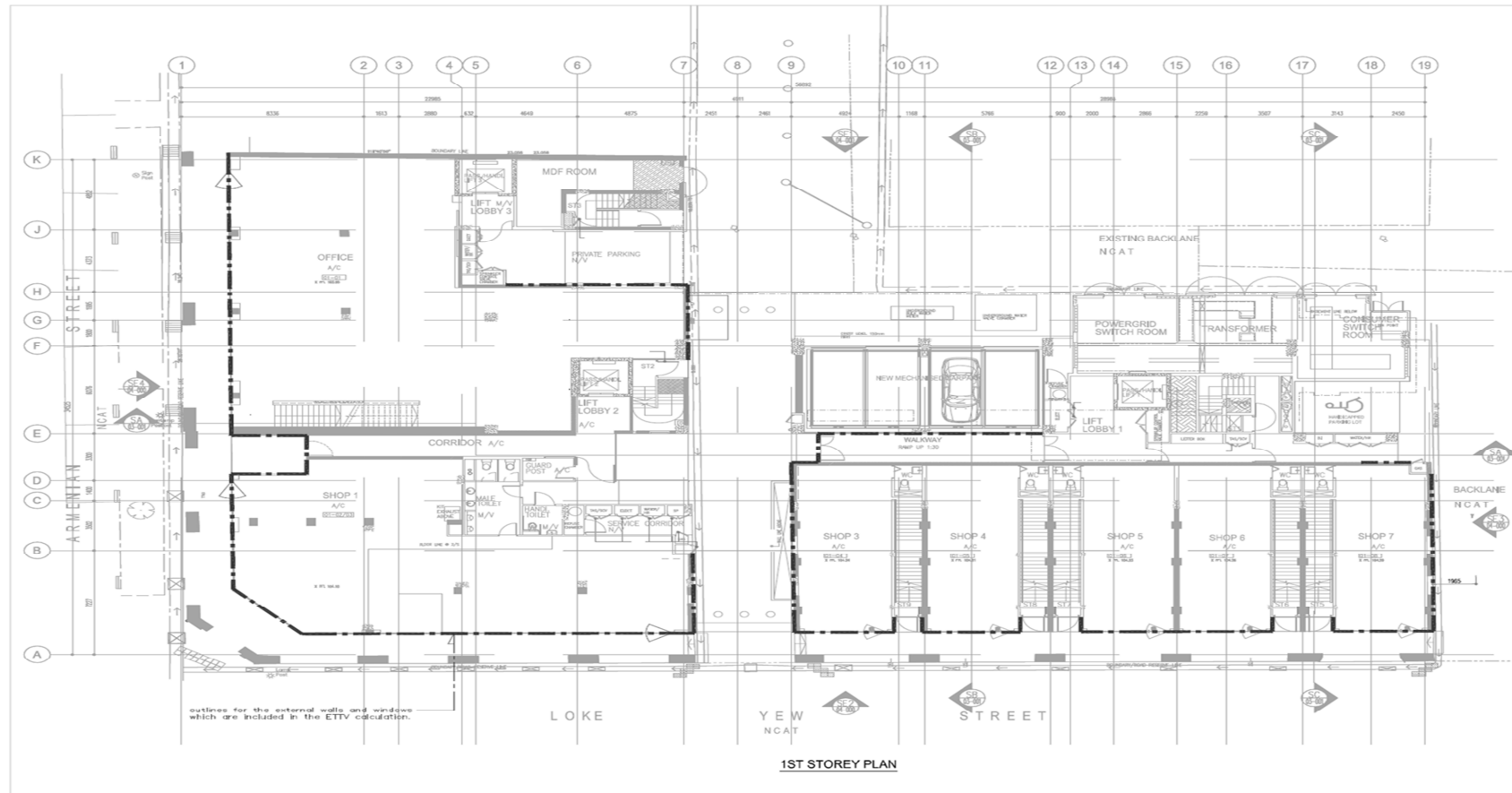


Figure A-1: 1st Storey Plan Layout
 (Sources: M/S Hong How Investment Pte Ltd)

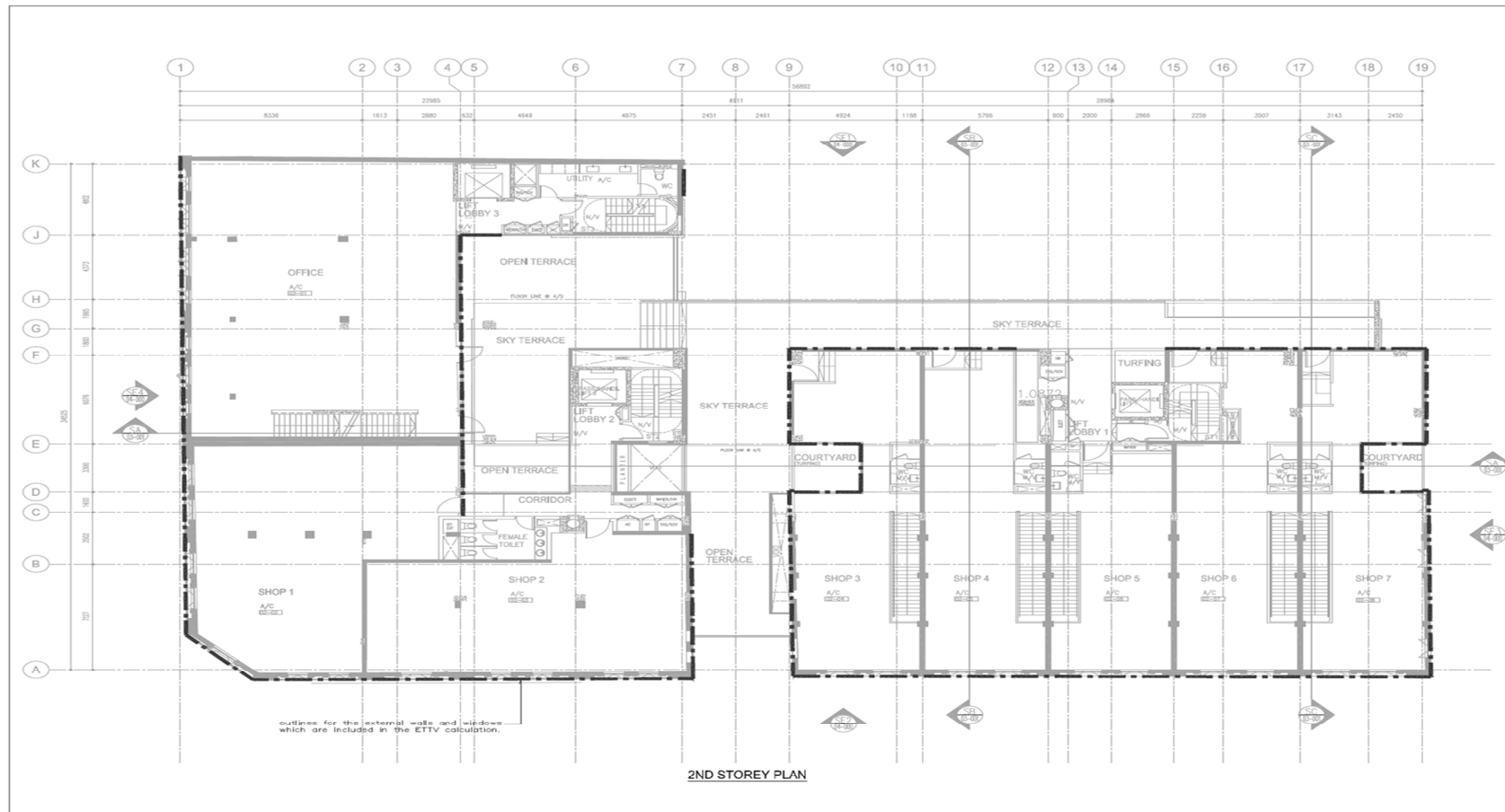


Figure A-2: 2nd Storey Plan Layout
 (Sources: M/S Hong How Investment Pte Ltd)

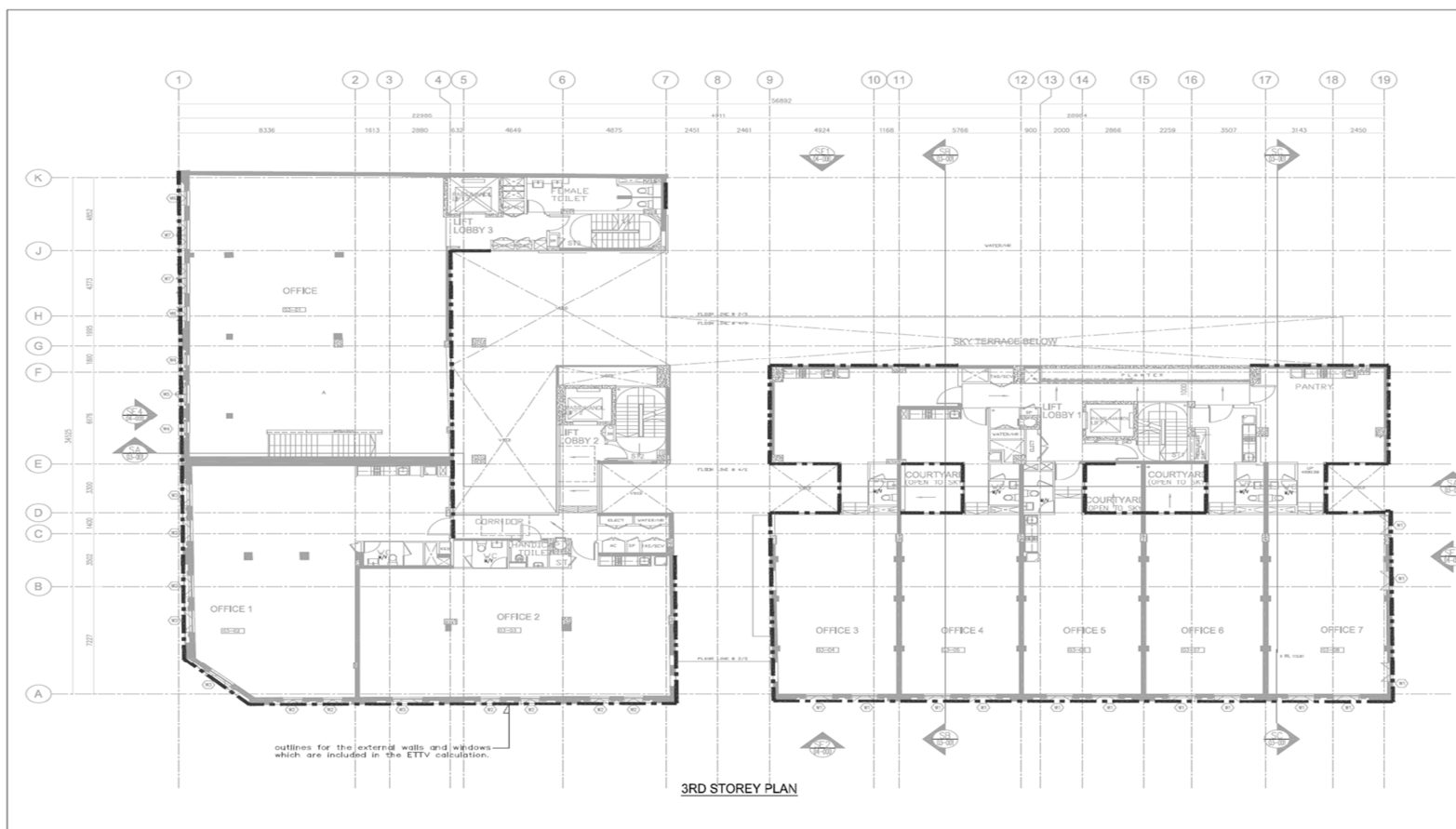


Figure A-3: 3rd Storey Plan Layout
(Sources: M/S Hong How Investment Pte Ltd)

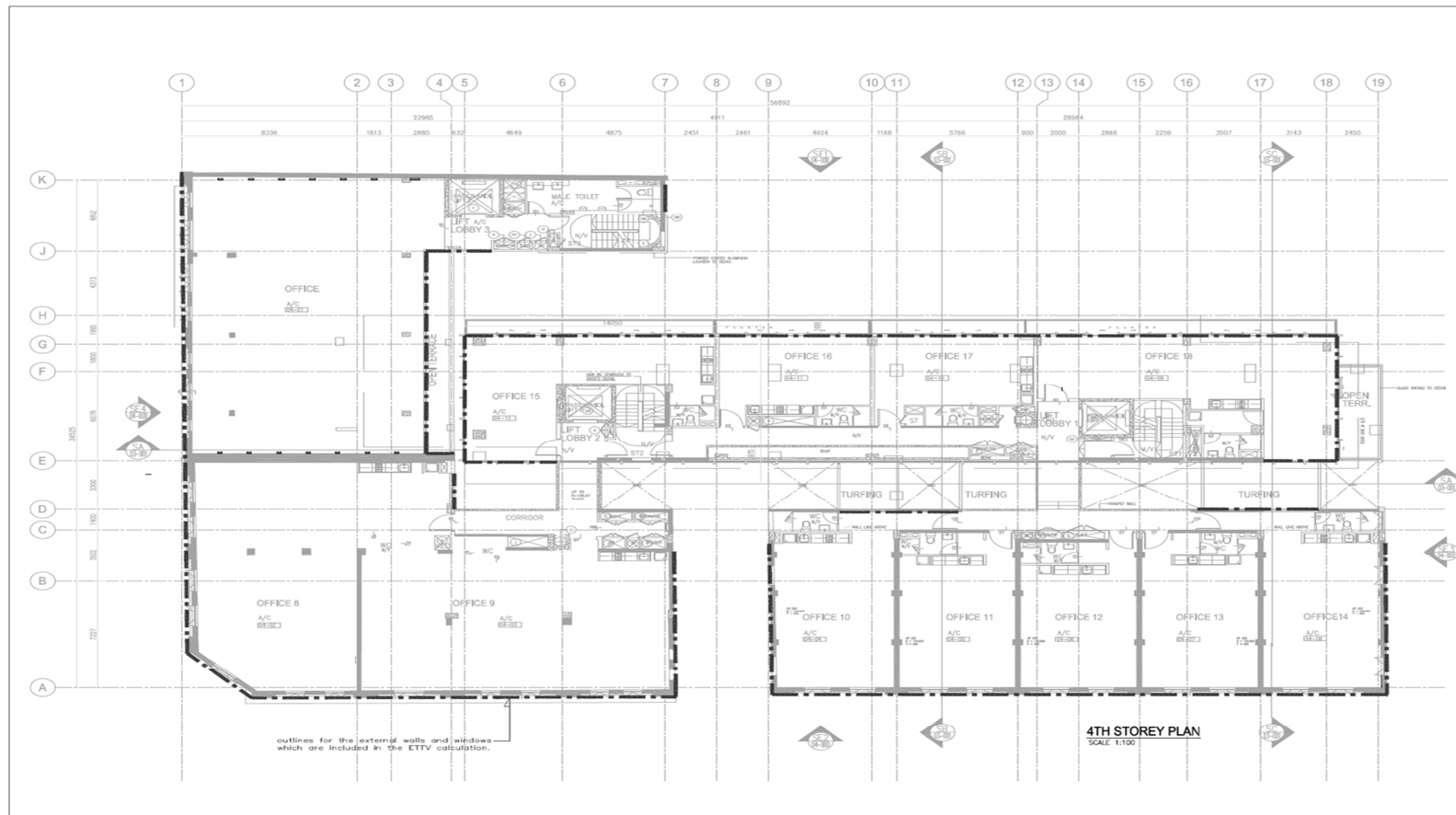


Figure A-4: 4th Storey Plan Layout
(Sources: M/S Hong How Investment Pte Ltd)

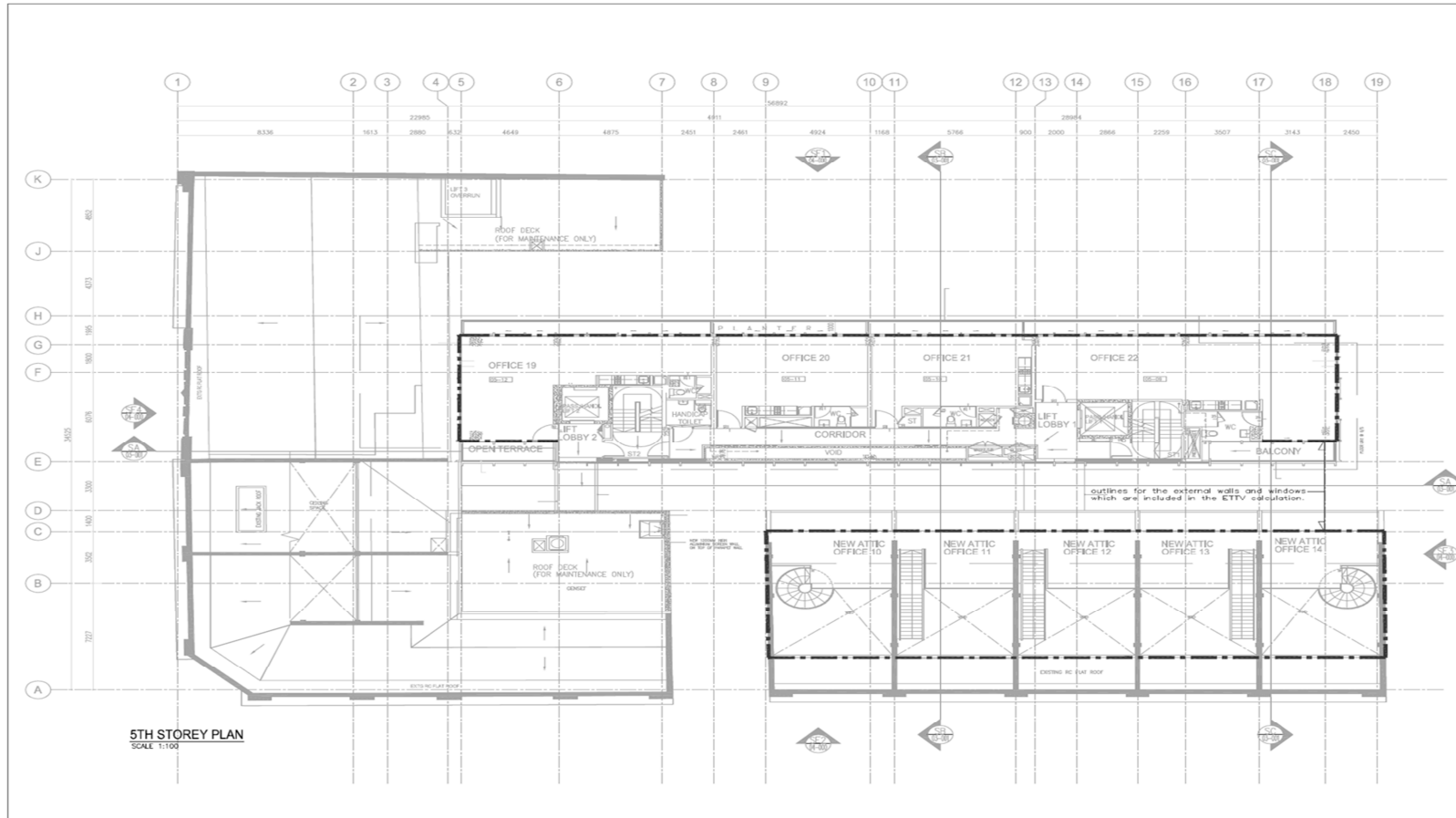


Figure A-5: 5th Storey Plan Layout
(Sources: M/S Hong How Investment Pte Ltd)

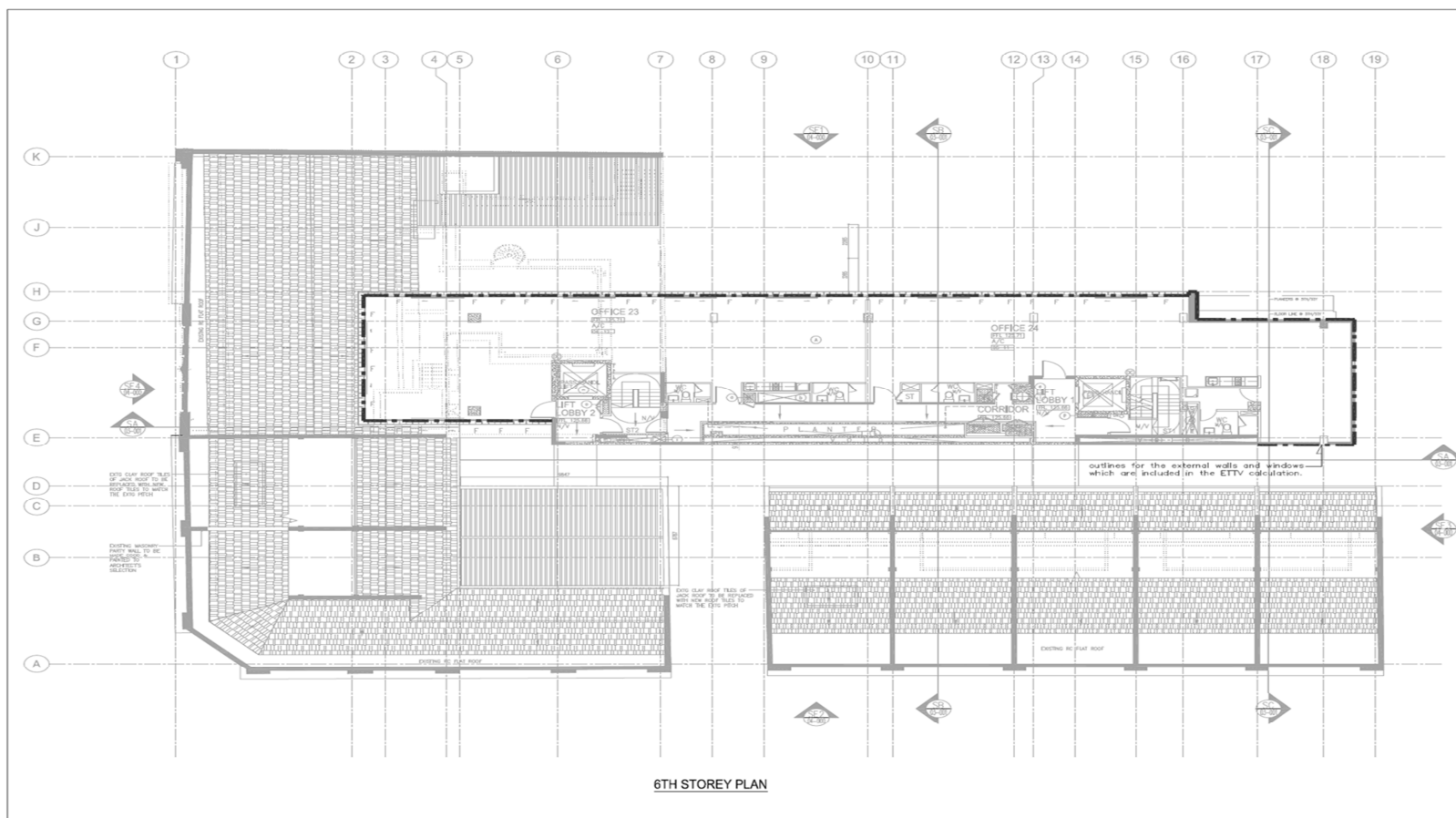
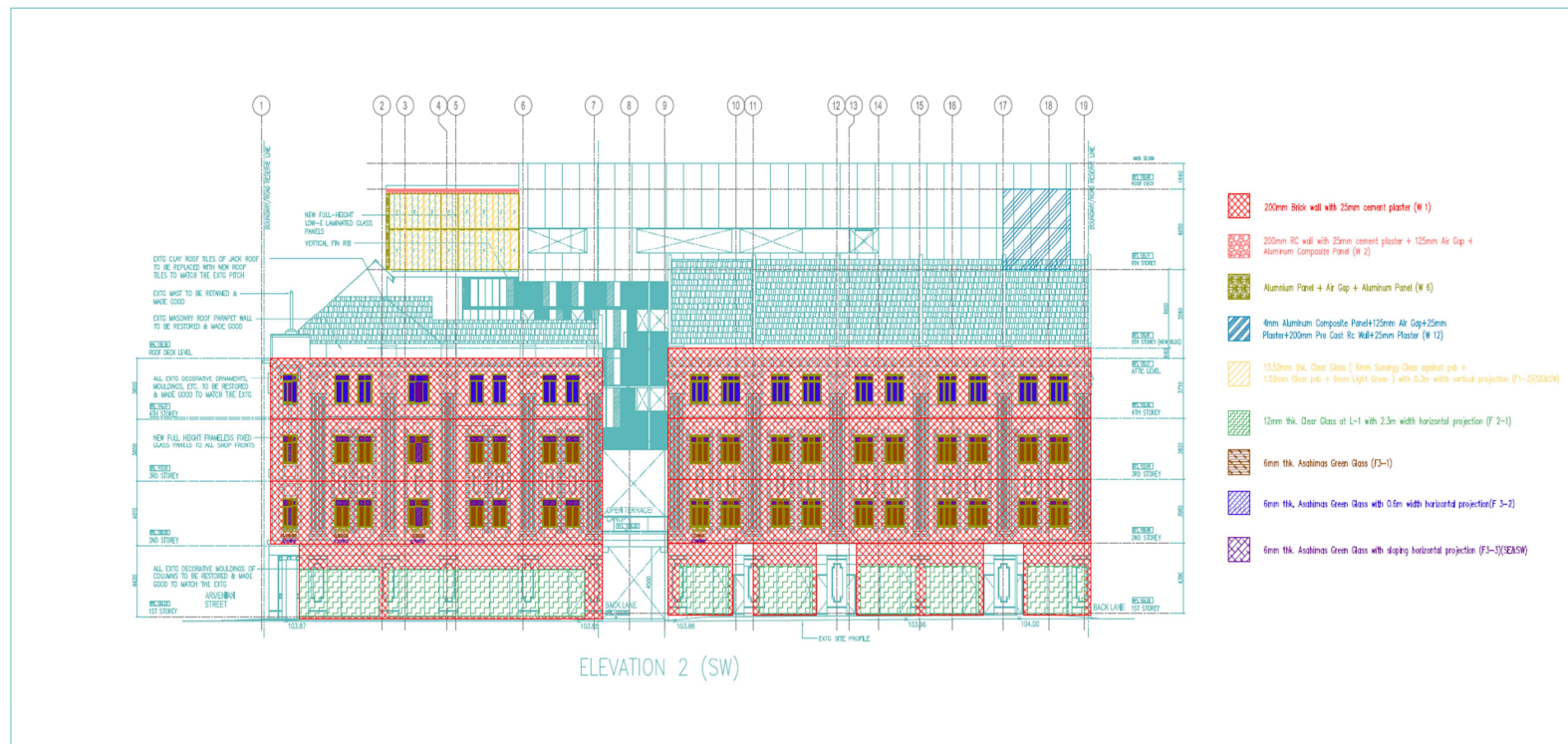


Figure A-6: 6th Storey Plan Layout
(Sources: M/S Hong How Investment Pte Ltd)



Figure A-7: Elevation 1 (NE)
(Sources: M/S Hong How Investment Pte Ltd)



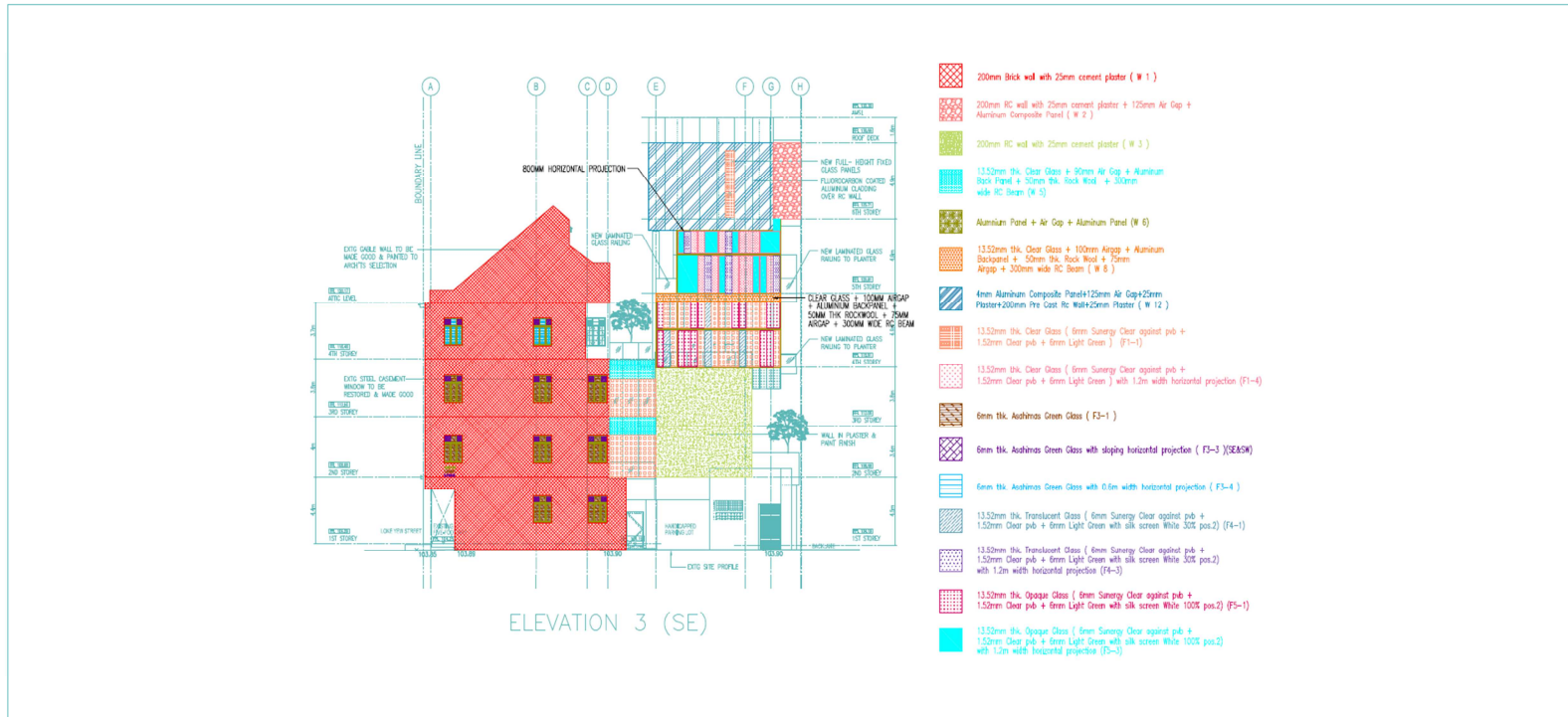


Figure A-9: Elevation 3 (SE)
(Sources: M/S Hong How Investment Pte Ltd)

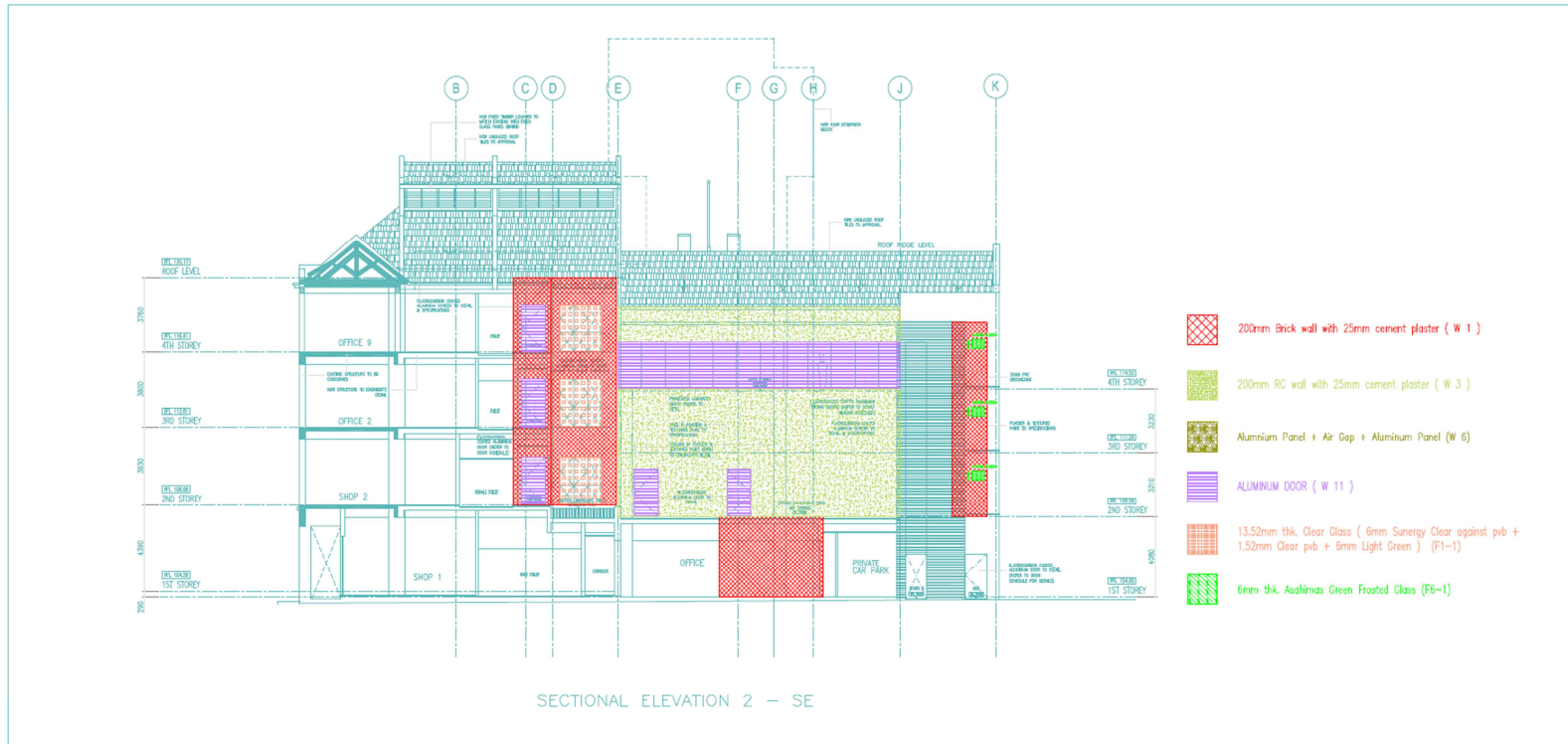


Figure A-12: Sectional Elevation 2 (SE)
(Sources: M/S Hong How Investment Pte Ltd)

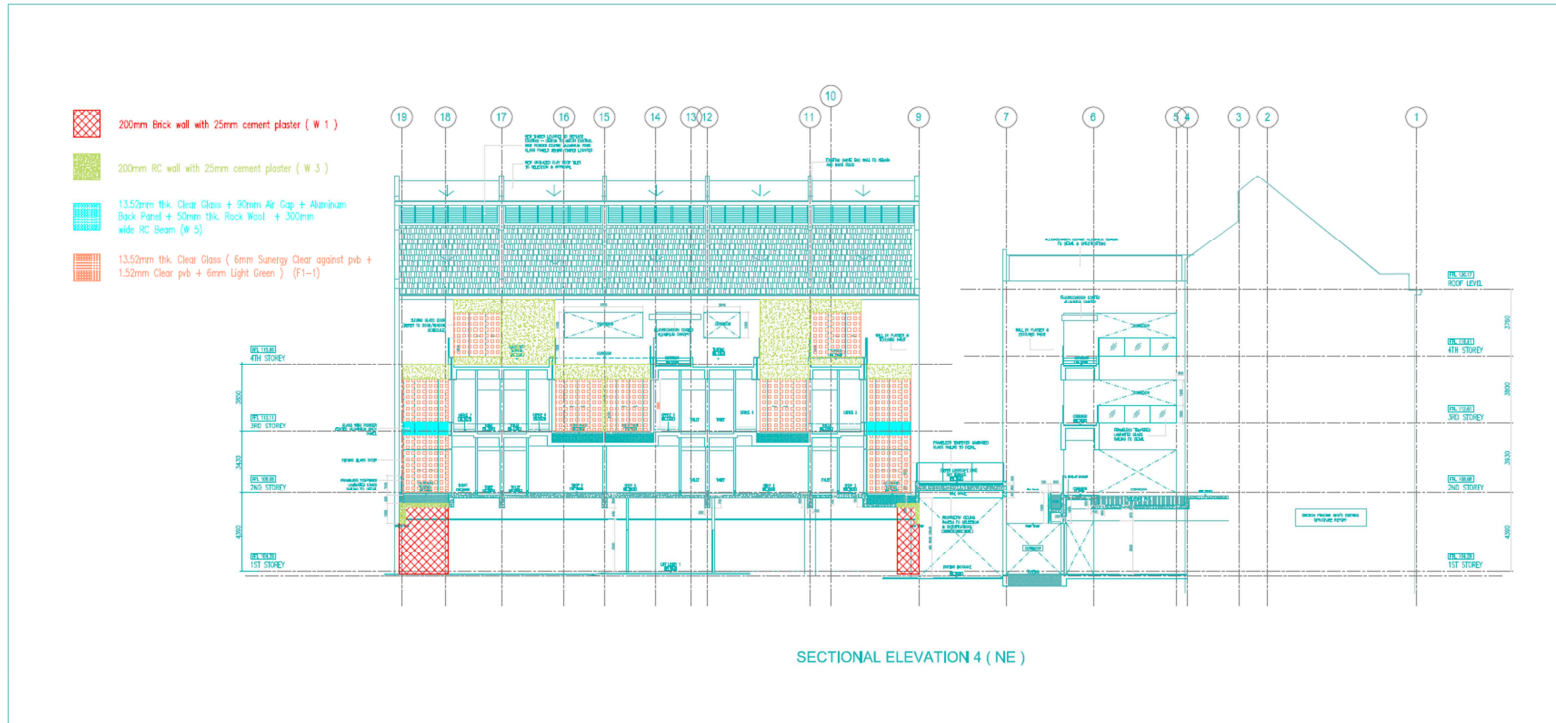


Figure A-14: Sectional Elevation 4 (NE)
(Sources: M/S Hong How Investment Pte Ltd)

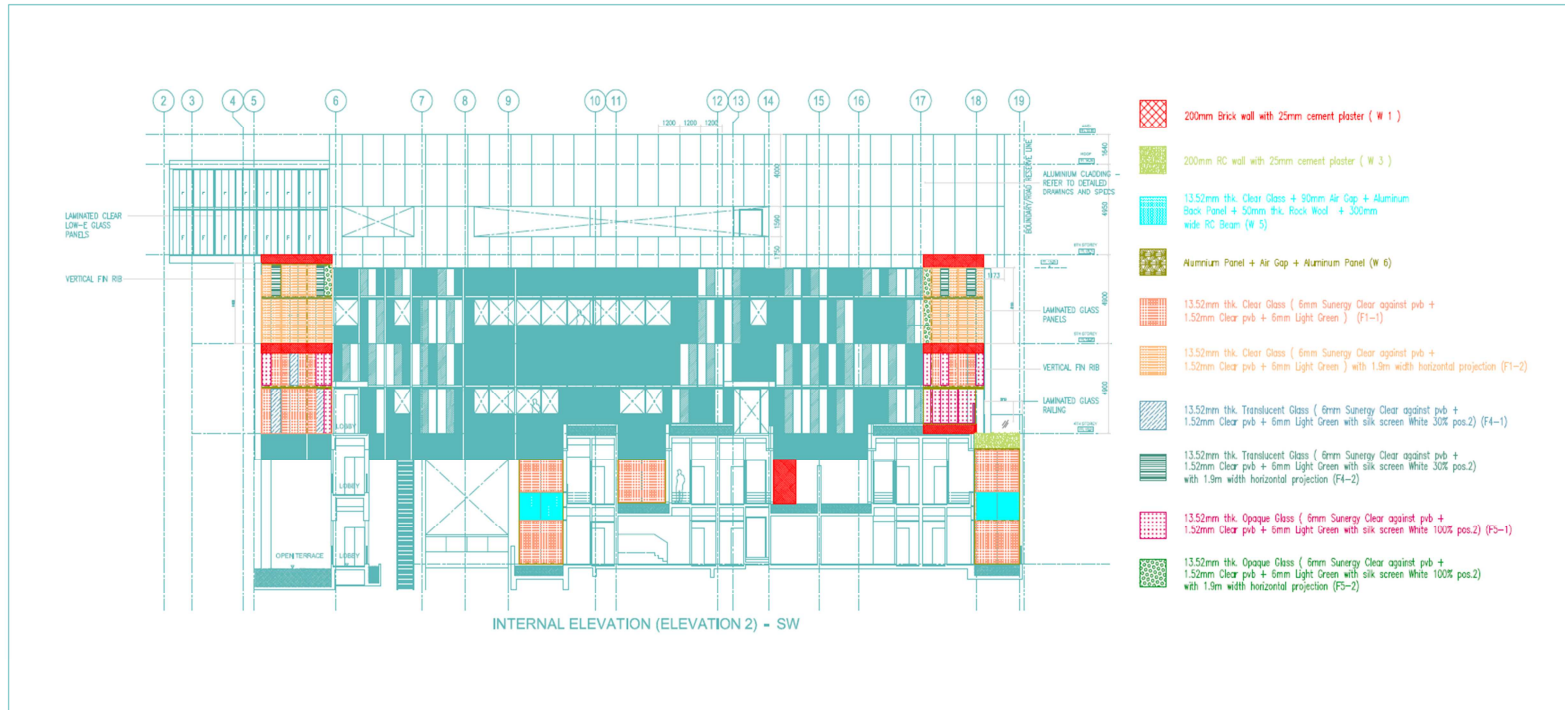
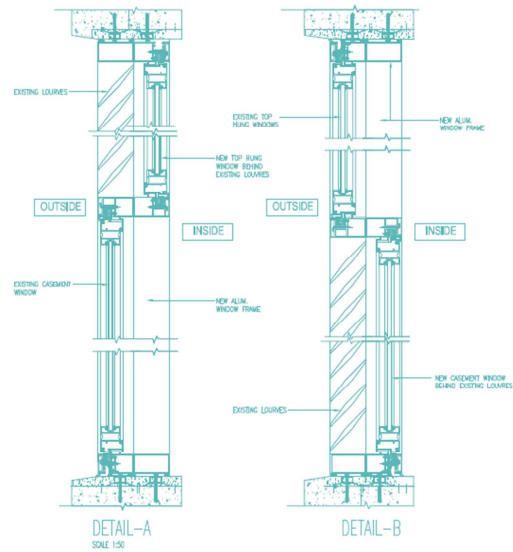


Figure A-15: Internal Elevation 2 (SW)
(Sources: M/S Hong How Investment Pte Ltd)

TYPICAL WINDOW DETAILS



EXISTING WINDOW SCHEDULE				
<p>W001 EXISTING STEEL FRAMED CASSEMENT WINDOW WITH LOUVER & FIXED GLASS PANELS TO BE RESTORED & MADE GOOD. THE LOUVERED PART OF THE WINDOW SHALL BE PROVIDED INTERNALLY WITH NEW ALUM. FRAMED TOP-HUNG WINDOW.</p>	<p>W002 EXISTING STEEL FRAMED CASSEMENT WINDOW WITH LOUVER & FIXED GLASS PANELS TO BE RESTORED & MADE GOOD. THE LOUVERED PART OF THE WINDOW SHALL BE PROVIDED INTERNALLY WITH NEW ALUM. FRAMED TOP-HUNG WINDOW.</p>	<p>W003 EXISTING STEEL FRAMED CASSEMENT WINDOW WITH LOUVER & FIXED GLASS PANELS TO BE RESTORED & MADE GOOD. THE LOUVERED PART OF THE WINDOW SHALL BE PROVIDED INTERNALLY WITH NEW ALUM. FRAMED TOP-HUNG & CASSEMENT WINDOWS.</p>	<p>W004 EXISTING STEEL FRAMED TOP-HUNG WINDOW WITH FIXED GLASS PANELS TO BE RESTORED & MADE GOOD.</p>	<p>W005 EXISTING STEEL FRAMED TOP-HUNG WINDOW WITH FIXED GLASS PANELS & CASSEMENT WINDOWS TO BE RESTORED & MADE GOOD.</p>
<p>W006 EXISTING STEEL FRAMED CASSEMENT WINDOW WITH TOP-HUNG OVER & EXISTING ABOVE TO BE RESTORED & MADE GOOD.</p>	<p>W007 EXISTING STEEL FRAMED CASSEMENT WINDOW WITH TOP-HUNG OVER & EXISTING ABOVE TO BE RESTORED & MADE GOOD.</p>	<p>W008 EXISTING STEEL FRAMED CASSEMENT WINDOW WITH LOUVER & FIXED GLASS PANELS TO BE RESTORED & MADE GOOD. THE LOUVERED PART OF THE WINDOW SHALL BE PROVIDED INTERNALLY WITH NEW ALUM. FRAMED TOP-HUNG & CASSEMENT WINDOWS.</p>	<p>SCALE 1:5</p>	

Figure A-16: Existing Window Schedule and Typical Windows Detail
(Sources: M/S Hong How Investment Pte Ltd)

APPENDIX B:
SUMMARY OF CALCULATION RESULT

Table B-1: Summary of Cooling Load and Cooling Energy Calculation Result

Description	COP (Selected Equipment)	Cooling Load (kW)					Cooling Energy (kW)				
		13.52 mm Sunergy Clear Glass Performance					13.52 mm Sunergy Clear Glass Performance				
		0.2	0.4	0.51	0.6	0.8	0.2	0.4	0.51	0.6	0.8
Guard Post	3.00	6.80	6.80	6.8	6.8	6.8	2.27	2.27	2.27	2.27	2.27
Lift Lobby 2											
L1-Office	3.00	58.70	58.70	58.7	58.7	58.7	19.57	19.57	19.57	19.57	19.57
L1- Lift Lobby 1	3.00	7.60	7.60	7.6	7.6	7.6	2.53	2.53	2.53	2.53	2.53
L1-Shop 1	3.00	47.00	47.00	47	47	47	15.67	15.67	15.67	15.67	15.67
L1-Shop 3	3.00	16.30	16.30	16.3	16.3	16.3	5.43	5.43	5.43	5.43	5.43
L1-Shop 4	3.00	9.60	9.60	9.6	9.6	9.6	3.20	3.20	3.20	3.20	3.20
L1-Shop 5	3.00	9.30	9.30	9.3	9.3	9.3	3.10	3.10	3.10	3.10	3.10
L1-Shop 6	3.00	9.40	9.40	9.4	9.4	9.4	3.13	3.13	3.13	3.13	3.13
L1-Shop 7	3.00	17.10	17.10	17.1	17.1	17.1	5.70	5.70	5.70	5.70	5.70
L2 - Utility / Lobby 3	3.00	4.60	4.60	4.6	4.6	4.6	1.53	1.53	1.53	1.53	1.53
L2-Office	3.00	40.90	41.20	41.6	41.7	42.5	13.63	13.73	13.87	13.90	14.17
L2-Shop 1	3.00	28.60	28.70	29.1	29.2	29.4	9.53	9.57	9.70	9.73	9.80
L2-Shop 2	3.00	23.10	23.10	23.1	23.1	23.1	7.70	7.70	7.70	7.70	7.70
L2-Shop 3	3.00	28.60	30.40	31.2	31.7	33	9.53	10.13	10.40	10.57	11.00
L2-Shop 4	3.00	17.20	17.20	17.2	17.2	17.2	5.73	5.73	5.73	5.73	5.73
L2-Shop 5	3.00	10.90	10.90	10.9	10.9	10.9	3.63	3.63	3.63	3.63	3.63
L2-Shop 6	3.00	16.70	16.70	16.7	16.7	16.7	5.57	5.57	5.57	5.57	5.57
L2-Shop 7	3.00	16.80	17.50	18.5	18.5	19.5	5.60	5.83	6.17	6.17	6.50

Table B-1: Summary of Cooling Load and Cooling Energy Calculation Result (Cont.)

Description	COP (Selected Equipment)	Cooling Load (kW)					Cooling Energy (kW)				
		13.52 mm Sunergy Clear Glass Performance					13.52 mm Sunergy Clear Glass Performance				
		0.2	0.4	0.51	0.6	0.8	0.2	0.4	0.51	0.6	0.8
L3- Female / Lobby 3	3.00	4.60	4.60	4.6	4.6	4.6	1.53	1.53	1.53	1.53	1.53
L3-Office	3.00	40.90	41.20	41.6	41.7	42.5	13.63	13.73	13.87	13.90	14.17
L3-Office (SOHO) 1	3.00	24.30	24.50	24.6	24.9	25.2	8.10	8.17	8.20	8.30	8.40
L3-Office (SOHO) 2	3.00	22.10	22.10	22.1	22.1	22.1	7.37	7.37	7.37	7.37	7.37
L3-Office (SOHO) 3	3.00	27.50	28.30	29.5	30.1	31.3	9.17	9.43	9.83	10.03	10.43
L3-Office (SOHO) 4	3.00	15.10	15.60	16.5	16.8	17.6	5.03	5.20	5.50	5.60	5.87
L3-Office (SOHO) 5	3.00	13.50	14.20	14.6	14.9	15.8	4.50	4.73	4.87	4.97	5.27
L3-Office (SOHO) 6	3.00	14.30	14.60	14.9	15.2	16	4.77	4.87	4.97	5.07	5.33
L3-Office (SOHO) 7	3.00	16.50	17.50	18.1	18.3	19.2	5.50	5.83	6.03	6.10	6.40
L4-Female / Lobby 3	3.00	4.60	4.60	4.6	4.6	4.6	1.53	1.53	1.53	1.53	1.53
L4-Office	3.00	53.60	56.10	56.8	56.8	58	17.87	18.70	18.93	18.93	19.33
L4-Office 8	3.00	29.00	29.00	29	29	29	9.67	9.67	9.67	9.67	9.67
L4-Office 9	3.00	27.10	27.10	27.1	27.1	27.1	9.03	9.03	9.03	9.03	9.03
L4-Office 10	3.00	18.40	18.40	18.4	18.4	18.4	6.13	6.13	6.13	6.13	6.13
L5-Office 10											

Table B-1: Summary of Cooling Load and Cooling Energy Calculation Result (Cont.)

Description	COP (Selected Equipment)	Cooling Load (kW)					Cooling Energy (kW)				
		13.52 mm Sunergy Clear Glass Performance					13.52 mm Sunergy Clear Glass Performance				
		0.2	0.4	0.51	0.6	0.8	0.2	0.4	0.51	0.6	0.8
L4-Office 11	3.00	13.30	13.30	13.3	13.3	13.3	4.43	4.43	4.43	4.43	4.43
L5-Office 11											
L4-Office 12	3.00	12.60	12.60	12.6	12.6	12.6	4.20	4.20	4.20	4.20	4.20
L5-Office 12											
L4-Office 13	3.00	14.30	14.30	14.3	14.3	14.3	4.77	4.77	4.77	4.77	4.77
L5-Office 13											
L4-Office 14	3.00	18.30	18.80	19.1	19.5	19.7	6.10	6.27	6.37	6.50	6.57
L5-Office 14											
L4-Office 15	3.00	13.00	15.80	17.3	18.5	21.6	4.33	5.27	5.77	6.17	7.20
L4-Office 16	3.00	7.00	7.50	8	8.2	8.9	2.33	2.50	2.67	2.73	2.97
L4-Office 17	3.00	7.00	7.50	8	8.2	8.9	2.33	2.50	2.67	2.73	2.97
L4-Office 18	3.00	19.00	21.00	22.1	22.8	24.4	6.33	7.00	7.37	7.60	8.13
L5-Office 19	3.00	16.90	19.80	21.9	22.8	26.4	5.63	6.60	7.30	7.60	8.80
L5-Office 20	3.00	7.30	7.90	8.5	9	10	2.43	2.63	2.83	3.00	3.33
L5-Office 21	3.00	7.00	8.00	8.3	8.8	10	2.33	2.67	2.77	2.93	3.33
L5-Office 22	3.00	19.40	21.90	22.9	24.7	26.8	6.47	7.30	7.63	8.23	8.93
L6-Office 23	3.00	41.60	45.80	49.2	50.3	55.2	13.87	15.27	16.40	16.77	18.40
L6-Office 24	3.00	31.30	33.40	34.6	35.5	37.3	10.43	11.13	11.53	11.83	12.43
Total		908.70	937.50	957.20	968.40	999.50	302.90	312.50	319.07	322.80	333.17